

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

HENSEN, ET AL.

Serial Number: To be assigned

Group Art Unit: To be assigned

Filed: February 10, 2005

Examiner: To be assigned

For: Streptococcus uberis protein, nucleic acid sequence encoding the same and its use in a mastitis vaccine

Corresponding to: PCT/EP2003/008704 filed August 6, 2003

SUBMISSION OF SEQUENCE LISTING

Assistant Commissioner of Patents
Alexandria, VA 22313

February 10, 2005

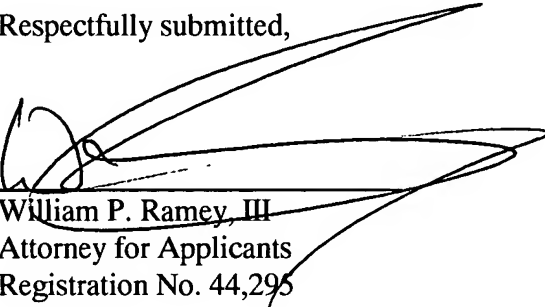
Sir:

Applicants are submitting herewith the Sequence Listing for the above-identified application both in paper copy form and in computer readable form.

The name of the file on the computer readable form is 2002.013 SEQ LIST. The paper copy and the computer readable form are the same. No new matter is added hereby.

Please replace the current sequence listing in the specification with the instant sequence listing.

Respectfully submitted,



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2002.013 SEQ LIST
SEQUENCE LISTING

<110> AKZO Nobel N.V.

<120> Novel mastitis vaccine

<130> 2002.013

<160> 2

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<210> 1

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<213> Streptococcus uberis

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Cys	Phe	Tyr	Gln	Ala	Tyr	Ile	Thr	His	Gln	Asn	Val	Gln	Asn	Val	Met	
			20					25						30		

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Gln	Tyr	Lys	Pro	Met	Val	Glu	Lys	Thr	Leu	Ala	Glu	Asn	Asp	Thr	Thr	
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Ala	Asn	Val	Asn	Leu	Val	Leu	Ala	Met	Ile	Tyr	Thr	Glu	Thr	Lys	Gly	
		50				55					60					

ggc	cag	gca	gat	gtc	atg	caa	tct	agc	gaa	agt	agt	agt	ggc	gtg	act	240
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85	90		95	
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100	105		110	
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115	120		125	
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<213> Streptococcus uberis

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Cys Phe Tyr Gln Ala Tyr Ile Thr His Gln Asn Val Gln Asn Val Met
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Gln Tyr Lys Pro Met Val Glu Lys Thr Leu Ala Glu Asn Asp Thr Thr
35 40 45

Ala Asn Val Asn Leu Val Leu Ala Met Ile Tyr Thr Glu Thr Lys Gly
50 55 60

2002.013 SEQ LIST

Gly Gln Ala Asp Val Met Gln Ser Ser Glu Ser Ser Ser Gly Val Thr
65 70 75 80

Asn Ser Ile Thr Asp Ser Gln Ser Ser Ile Gln His Gly Val Lys Leu
85 90 95

Leu Ser Glu Asn Leu Thr Leu Ala Glu Lys Ala Gly Val Asp Ser Trp
100 105 110

Thr Ala Val Gln Ala Tyr Asn Phe Gly Thr Ala Tyr Ile Asp Tyr Val
115 120 125

Ala Lys Asn Gly Gly Asp Asn Thr Ile Ser Leu Ala Ser His Tyr Ser
130 135 140

Lys Ser Val Val Ala Pro Ser Leu Gly Asn Lys Asp Gly Lys Met Tyr
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180 185 190

Leu Ile Gln Leu Leu Ser Lys Phe
195 200